

VIPER. SMARTKey

Quick Reference User's Guide VSK100

Congratulations on the purchase of your state-of-the-art Viper SmartKey system. Reading this user's guide prior to using your system will get you off to a quick and smooth start.

Start Here

Before you can start using your system, the following steps must be performed:

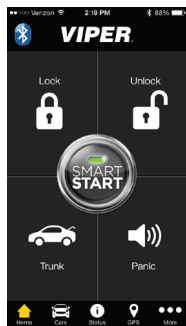
1. Download the free Viper SmartStart app from iTunes App Store or Google Play.

Note: Accessing Viper SmartKey passive locking features requires v3.2 app or newer.

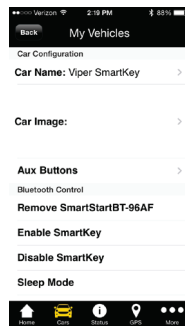
2. Have the Viper SmartKey system installed by your authorized Viper dealer.
3. Follow the steps below to finish connecting your smartphone to your installed Viper SmartKey module.

Note: Your Viper SmartKey may be used as a standalone unit or connected to an existing Viper system. As a result functionality/screen appearance may differ slightly across systems.

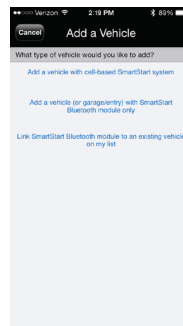
Set up your app to connect with Viper SmartKey



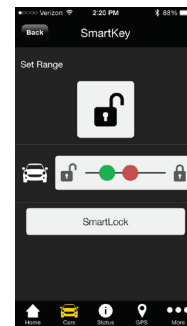
Home Screen



Cars Screen-My Vehicles



Cars Screen-Add Vehicle



Cars Screen-SmartKey

1. Place your Viper SmartKey system in discovery mode by holding down the pairing button on the module until the LED turns blue (pairing button is the one furthest away from the LED).
2. Open your phone's Bluetooth menu, make sure Bluetooth is turned on. Look for your Viper SmartKey device name on the list of available Bluetooth devices (SmartStartBT-xxxx). Tap on the device name to pair your phone to it. The blue LED on your Viper SmartKey module begins flashing quickly when it connects to your phone at the end of the pairing process, then turns solid blue to indicate a successful connection.
3. Open your SmartStart app, then go to More/Settings and make sure the Bluetooth switch is turned on.
4. Go to the Cars tab and press the (+) button on the top right of header. Follow the instructions on the page to either Add a standalone SmartKey system, or Link to associate the SmartKey device with an existing vehicle on your Cars page.
5. Select the SmartKey or SmartStart Bluetooth device you want to add to the app. For standalone systems, you can edit the name and add a picture to make it easier to select that vehicle when using the app.
6. When you have finished setting up your app to connect with your Viper SmartKey system, you can send active commands from the main user interface page. The app automatically detects whether you are connected and routes your commands over the high speed Bluetooth connection any time it is available.

Setting the unlock/lock range

Important! Please read and follow these steps carefully.

1. Go to the Cars tab, and select the ">" next to the vehicle name that represents the SmartKey system you want to set up. You must be in range of the vehicle and connected via Bluetooth. The Bluetooth icon on the main UI page appears when a connection is detected.
2. Press the "Enable SmartKey" button to turn on passive locking & unlocking, and to access the SmartKey control page.
3. When the SmartKey control page opens, stand approximately 10-15 feet from the vehicle, preferably at a slight angle to the driver's side.
4. Press the Set Range button. This establishes your current position as the approximate range where Unlock will occur, and automatically sets the Lock range several feet further away from the vehicle. The Unlock/Lock sliders on the SmartKey control page move to indicate the updated range thresholds.
5. Walk away from the vehicle and check that Lock occurs within a reasonable distance, and then walk back to the vehicle to check that Unlock occurs before you have reached the vehicle.

Note: The actual range varies depending on whether you are holding the phone in your hand or have it in a pocket, also whether other metal or electronic devices are close to the phone. These variances tend to be consistent but you should experiment until you are comfortable with the programmed range. If you aren't sure the range is set correctly, check with your installer.

Other Viper SmartKey features

1. To temporarily disable SmartKey, you can send an active Lock or Unlock command. This turns off passive locking/unlocking activity until you are out of range of the vehicle. At that time SmartKey reengages and passive locking/unlocking resumes.
2. To turn off SmartKey completely (disable passive locking/unlocking), tap the Bluetooth icon on the top left of the main SmartStart user interface page and check the pop-up to confirm that SmartKey is now disabled. Tap the icon again when you want to re-enable SmartKey, otherwise it will remain disabled indefinitely.
3. You can also turn on the SmartLock feature if you want to remain in the vicinity of the vehicle without having it lock and unlock repeatedly. When SmartLock is active, it defers the lock/unlock decision by a fixed period of time. Moving past the lock and unlock thresholds resets these timers, preventing the vehicle from locking or unlocking until you stay outside the threshold long enough for the timers to expire. Tap the SmartLock button on the Cars detail page for that vehicle to enable SmartLock, tap it again to disable SmartLock.
4. Sleep mode is enabled by tapping the Sleep Mode button on the Cars detail page. This shuts down the module to prevent it from using any battery current. Use this if you are parking the vehicle for extended periods of time. You can wake the module back up when you return by simply sending a Connect request. For iPhone, tap the device name on the phone's Bluetooth device list. For Android, from either the main SmartStart user interface page or the Cars tab, press the phone's Menu button to pop up a command box in the app with the Connect button in it. Press this button to restart your SmartKey module.
5. Power Saver Mode is automatically entered after 14 hours of no command activity. This mode leaves the SmartKey device active so you can connect with it and send commands, but it reduces the auto-connect polling to lower the amount of current draw from the battery. The SmartKey device automatically exits Power Saver Mode when you return to the vehicle or send it a command.

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SMARTKey

Introduction

This product can be used as a standalone product or in conjunction with an existing Directed product. It is compatible with most Directed Security, Remote Start and hybrid systems.

If the SmartKey module is being installed as a standalone device, refer to the *Wiring Diagram for Standalone Applications* and Feature Programming Procedure sections. When installing the SmartKey system in standalone mode, no programming is required if you are using the default output settings. See the table in Feature Programming/RF Selection Menu for the specific default settings for each of the four outputs.

If the SmartKey module is to be connected to a compatible Directed system, first determine whether that system uses 6-pin or 4-pin IVU (RF) connectors. For 6-pin IVU systems, refer to the *Wiring Diagram for use with Existing Product using 6-pin RF connectors* section. For 4-pin IVU systems, refer to the additional adapter harness connections in the 8210 RF Adapter Kit wiring diagram section.

Refer to the *Simplified System Programming* section for all applications where the SmartKey module will be connected to a compatible Directed system.

Please note that accessing the SmartKey features currently requires a compatible iPhone or Android, and v3.2 or newer SmartStart app installed on that phone. You can also control older SmartStart Bluetooth modules with the new app(s). Although you can also access non-SmartKey features of this hardware with some older versions of the SmartStart app, for best results, update the app to v3.2 or newer.

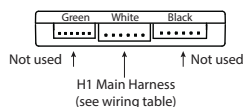
Mounting the Module

Determine an appropriate location for the SmartKey module such as along the dashboard. For best performance when using the SmartKey PKE feature, the module should be located centrally. Mounting on one side of the vehicle will generally result in different lock/unlock ranges on either side of the vehicle. For best range (when sending active commands), it is recommended that you mount the module in the highest unobstructed position. Keep in mind the owner will need to be able to access the pairing switch if they change phones or add a new phone to the system.

The SmartKey module comes with a mounting bracket and hardware. Mount this bracket first using the provided hardware and insert the module into it.

Wiring Diagram for Standalone Applications

SMARTKey Control Module
Side view, Standalone application



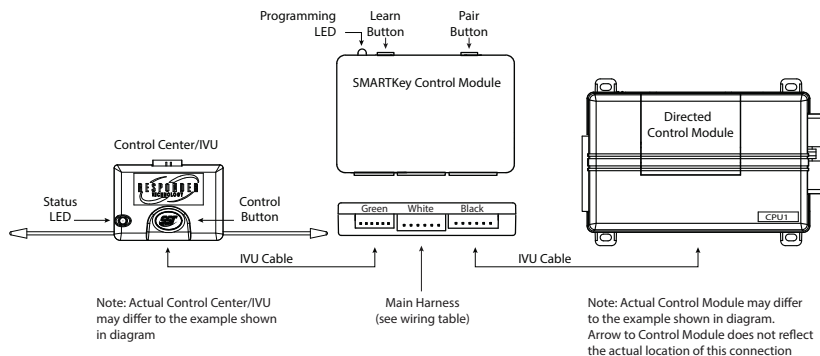
Connect system as shown in H1 6-pin harness wiring table. When complete, go to *Linking the SmartKey to a Smartphone* section of this guide. Test the system using the SmartStart app on linked smartphone.

H1 6-pin Harness			
Pin #	Wire Color	Connection for standalone	Connection with 6-pin RF systems
1	Red	+12V	+12V
2	Black	GND	GND
3	Green	Lock (output 1)	Not Connected
4	Blue	Unlock (output 2)	Not Connected
5	White	Start/Stop (output 4)	Not Connected
6	Pink	Trunk (output 3)	Not Connected

Quick Reference Install Guide

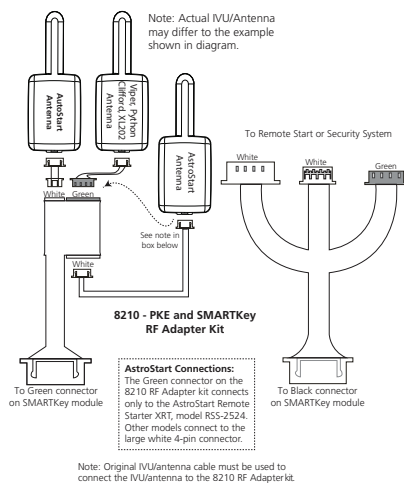
VSK100/DSK100

Wiring Diagram for use with Directed systems with 6-pin RF connectors



1. Unplug the existing system's IVU cable from the Control Center/IVU.
2. Connect the IVU cable from the green port of the SmartKey module to the existing Control Center/IVU.
3. Now connect the disconnected end of the Control Center (IVU) cable to the black connector of the SmartKey module.
4. Connect the main harness connector end to the white port of the SmartKey module and connect power and ground as noted in the H1 6-pin Harness table.

8210 RF Adapter Kit wiring diagram (required for 4-pin Control Center/IVU systems only)



Linking the SmartKey to a Smartphone (all applications)

For iPhone, iPad, or iPod Touch:

1. Press and hold the Pair button on the SmartKey device (furthest from LED) until the Blue LED lights.
2. Release the Pair button and the Blue LED will flash once per second.
3. On your iPhone go to Settings/Bluetooth and turn Bluetooth on.
4. Wait until the SmartKey device appears on your "devices" list then tap on it to connect, and wait for it to display "Connected".
5. Now open the SmartStart app and go to the Cars tab. Tap the (+) button on the upper right to add your SmartKey system to the Cars list. Follow the on-screen directions to either link it with an existing vehicle that has a SmartStart system, or to add it as a separate system..
6. Once connected, the Blue LED on the SmartKey module will be on solid. Now you can test the installed SmartKey system.

For Android smartphones or compatible tablets:

1. Open the SmartStart app and navigate to More/Settings, then scroll to Bluetooth Control and make sure the Bluetooth Status box is checked. If the Bluetooth wireless function of your phone is currently off, the app will attempt to turn it on and a permission box will pop up asking you to confirm that selection.
2. Press the Pair button (furthest from LED) and hold it until the LED turns blue. Ignore the Red LED that comes on first.
3. Release the Pair button and the blue LED will flash once per second. The SmartKey module stays in Pairing mode for 60 seconds before it automatically exits. If this happens, repeat step 2 to re-enter Pairing mode.
4. Navigate to the Cars tab of the SmartStart app and tap the (+) button on the upper right to add your SmartKey system to the Cars list. Follow the on-screen directions to either link it with an existing vehicle that has a SmartStart system, or to add it as a separate system.
5. The phone will display "attempting to connect", then if successful it will display "connected successfully" and the Blue LED on the SmartKey module will blink steady. Now you can test the installed SmartKey system.
6. If it is not successful you will see "Connection attempt failed"; repeat steps 4 and 5. If the Blue LED turns off on the SmartKey module, place it in Pairing mode again (steps 2, 3) then repeat steps 4 and 5.

Setting the unlock/lock range for SmartKey - important! Please read and follow these steps carefully.

1. Pair your phone (or customer's phone) to the installed SmartKey system.
2. Go to the Cars tab, and add or link the SmartKey module.
3. Select the ">" next to the vehicle name that represents the SmartKey system
4. Press the "Enable SmartKey" button
5. When the SmartKey User interface page opens, stand approximately 10-15 feet from the vehicle, preferably at a slight angle to the driver's side.
6. Press the Set Range button. This will establish your current position as the approximate range where Unlock will occur, and automatically sets the Lock range several feet further away from the vehicle. The Unlock/Lock sliders on the SmartKey page will move to indicate the updated range thresholds.
7. Walk away from the vehicle and check that Lock occurs within a reasonable distance, and then walk back to the vehicle to check that Unlock occurs before you have reached the vehicle.

Note that the actual range varies depending on whether you are holding the phone in your hand or have it in a pocket, also whether other metal or electronic devices are close to the phone. These variances tend to be consistent but you should experiment until you are comfortable with the programmed range. Be sure to explain these steps and how range is affected by those factors to your customer, or they may not have an optimal user experience.

Advanced range control (not recommended):

You can manually adjust the range for Lock and Unlock separately, if required. We do not recommend doing this unless you find that you cannot set good usable thresholds with the Set Range button.

1. To manually adjust the existing thresholds, open the SmartKey user interface page by going to Cars/Car details (the > button), and pressing the Enable SmartKey button.
2. Drag and drop the individual sliders for Lock and Unlock as desired. When you release the slider, a new range value will be sent to the SmartKey module based on the position of the slider.
3. Important! Lock must always be programmed further away from the car than Unlock. The app will not let you reverse those positions. Also, do not set the two thresholds very close together, or excessive lock/unlock toggling will occur.
4. If you experience erratic locking/unlocking after manually setting the range thresholds, reset the thresholds following the one-button "Set Range" programming feature described above.

Other SmartKey features:

1. To temporarily disable SmartKey, you can send an active Lock or Unlock command. This will turn off passive locking/unlocking activity until you are out of range of the vehicle. At that time SmartKey will reengage.
2. To turn off SmartKey completely (disable passive locking/unlocking), tap the Bluetooth icon on the top left of the main SmartStart user interface page and check the pop-up to confirm that SmartKey is now disabled. Tap the icon again when you want to re-enable SmartKey, otherwise it will remain disabled indefinitely.
3. You can also turn on the SmartLock feature if you want to remain in the vicinity of the vehicle without having it lock and unlock repeatedly. When SmartLock is active, it defers the lock/unlock decision by a fixed period of time. Moving past the lock and unlock thresholds resets those timers, preventing the vehicle from locking or unlocking until you stay outside the threshold long enough for the timers expire. Tap the SmartLock button on the Cars detail page for that vehicle to enable SmartLock, tap it again to disable SmartLock.
4. Sleep mode is now enabled by tapping the Sleep Mode button on the Cars detail page. This shuts down the module to prevent it from using any battery current. Use this if you are parking the vehicle for extended periods of time. You can wake the module back up when you return by simply sending a Connect request. For iPhone, tap the device name on the phone's Bluetooth device list. For Android, from either the main SmartStart user interface page or the Cars tab, press the phone's Menu button to pop up a command box in the app with the Connect button in it. Press that button to restart your SmartKey module.
5. Power Saver Mode is automatically entered after 14 hours of no command activity. This mode leaves the SmartKey device active so you can connect with it and send commands etc., but it reduces the polling activity cycle to lower the amount of current draw from the battery. The SmartKey device will automatically exit Power Saver Mode when you return to the vehicle or send it a command.

Simplified System Programming

The following programming may be required, depending on the specific application:

- Standalone application using default settings (see table): no system programming required
- Standalone application using custom settings: follow Feature Programming Procedure
- Connected to compatible Directed system: RF selection must first be programmed (follow RF Selection Procedure), and the SmartKey module must then be paired with the connected system (Pairing with Connected System).

Navigating SmartKey module programming mode

The following steps are used to navigate programming mode for RF Selection or Feature Programming:

1. Within 60 seconds of applying power to the SmartKey module, press and hold the Learn and Pair buttons simultaneously for five seconds, until the Red LED comes on solid.
2. Release the buttons. The Red LED shuts off and starts flashing once every two seconds to confirm entry into the RF Selection/Feature Programming list, menu item #1.
3. Press/release the Pair button (further away from LED) to navigate to the desired option for that menu step. If you go past the desired setting, you can advance to the end of the options and then restart at option 1. The option selected will be shown by number of blue LED flashes.
4. Press/release the Learn button (closer to the LED) to navigate to the desired menu step. The menu step will be indicated by number of Red LED flashes. Selecting menu step 10 will reset the module to default, standalone programming values.
5. You can exit programming at any time by holding the Pair and Learn buttons down until you see a combined Blue/Red flash on the LED. If you stop entering menu or option steps, the module will exit programming automatically after 60 seconds.

Feature and RF Options Menu

Default settings are in **bold** type. Refer to the *Feature and RF Selection Description* section at the end of this guide if you are unsure about the correct settings for your application.

Menu Item	Feature	Opt. 1	Opt. 2	Opt. 3	Opt. 4	Opt. 5+
1	RF Learning 1	Off (standalone)	Keeloq	Supercode	Astro	
2	RF Learning 2 Autostart *	HDR-AM-TYPE1	HDR-AM-TYPE2	HDR-AM-TYPE3	HDR-AM-TYPE4	5. HDRFM 6. LDRFM
3	Lock output	0.8 sec.	0.4 sec.	3.5 sec.	0.4 sec. x2	
4	Unlock output	0.8 sec.	0.4 sec.	3.5 sec.	0.4 sec. x2	
5	Comfort Close	Off	CC1	CC2		
6	Output 1 type	Lock	Unlock	Trunk	Start	5. Aux 1 6. Aux 2
7	Output 2 type	Lock	Unlock	Trunk	Start	
8	Output 3 type	Lock	Unlock	Trunk	Start	
9	Output 4 type	Lock	Unlock	Trunk	Start	
10	Factory Reset					
* For Autostart models, look up the RF mode Option number using the Autostart RF type Table on page 2.						

Feature Programming Procedure (standalone applications)

1. No programming is required if you are using the default flex output configuration as shown in the table above (bold options).
2. Follow the procedure above to place the SmartKey in programming mode.
3. Press/release the Learn button (closer to the LED) to navigate to the desired menu step.
4. Feature settings for standalone mode start at Menu Item 3, do not change the option settings for Menu Items 1 or 2.
5. Press/release the Pair button (further away from LED) to navigate to the desired option (feature) for that menu step.
6. When you've configured the outputs to the desired settings, exit programming and use the SmartStart app on a linked handset to test the system.

RF Selection Procedure (when used with compatible system)

1. You must always select the correct RF type when connecting the SmartKey module to a compatible security or remote start system.
2. Follow the procedure above to place the SmartKey in programming mode.
3. Press/release the Learn button (closer to the LED) to navigate to the desired menu step.
4. RF Selection settings are either made in Menu Item 1 (Directed or AstroStart systems) or Menu Item 2 (Autostart systems).
5. For Autostart systems, look up the correct option setting for Menu Item 2 in the Autostart RF Type Table.
6. Once you've selected the correct RF Setting to match the connected system, exit programming.
7. You must now Pair the SmartKey with the connected system before moving on to testing the system.

Pairing with Connected System

1. Make sure the SmartKey module has been programmed correctly for RF type. If your system has RF transmitters, you can send a command via the transmitter; the system will respond if the SmartKey module was programmed to the correct RF type. If it doesn't respond, go back to RF Selection Procedure and make sure the correct option was selected.
2. Place the connected system in Transmitter Learn routine (refer to the installation guide for the specific connected system for correct procedure).
3. When the connected system has entered Transmitter Learn routine, press/release the Pair button on the SmartKey module (button further from the LED). **Note:** some systems have a very short window where they will accept a command during Learn routine. Make sure you are pressing the Pair button on the SmartKey module during that window.
4. When you press the Pair button, the LED should flash blue indicating a lock command was generated, and the connected system should respond indicating it received the command and accepted the SmartKey module as an authorized transmitter.
5. If you get that acknowledgement, exit Transmitter Learn routine on the connected system. If you do not get that acknowledgement, go back to the RF Selection Procedure to make sure you selected the correct RF type for that system.

Feature and RF Option descriptions

1. RF Learning 1: Off/Keeloq/Supercode/Astro
 - Off (Standalone): The RF function of the unit is disabled and the Flex Outputs are active (see Note at end of this step).
 - Keeloq: Directed older generation receiver technology
 - Supercode: Directed new generation receiver technology
 - Astro: AstroStart receiver technology
2. RF Learning 2 (Autostart), HDR-AM type 1, 2, 3, 4/HDR-FM/LDR FM
 - AS HDR AM: Autostart HDR (AM based) receiver technology.
 - AS HDR FM: Autostart HDR (new generation FM based) receiver technology.
 - AS LDR: Autostart LDR (older generation) receiver technology.
3. Lock output:
 - 0.8 sec.:** the lock output pulses = 800 ms
 - 0.4 sec.:** the lock output pulses = 400 ms
 - 3.5 sec.:** the lock output pulses = 3.5 sec
 - 4s X2:** the lock output pulses twice, each pulse 400 ms duration
4. Unlock output:
 - 0.8 sec.:** the unlock output pulses = 800 ms
 - 0.4 sec.:** the unlock output pulses = 400 ms
 - 3.5 sec.:** the unlock output pulses = 3.5 sec
 - 4s X2:** the unlock output pulses twice, each pulse 400 ms duration
5. Comfort Closure:
 - Off:** Comfort Closure is defeated when locking
 - Comfort Closure 1:** the door lock pulse (or 2nd pulse for double pulses) remains on for 20 seconds.
 - Comfort Closure 2:** 800 mS following the end of the door lock pulse (or 2nd pulse for double pulses); the door lock output turns on again for 20 seconds.

Autostart RF type Table

RF Menu 2 steps:	Opt 1	Opt 2	Opt 3	Opt 4	Opt 5	Opt 6
RF type:	HDR-AM-TYPE1	HDR-AM-TYPE2	HDR-AM-TYPE3	HDR-AM-TYPE4	HDR FM	LDR FM
Model list:	1W 5btn RS/Combo	1W 4btn Combo	1W 2btn RS	1W 4btn RS	2W LED/LCD RS/Combo	2W LED/LCD RS
AUTOSTART	AS-1774, AS-1774SR, AS-1775, AS-1780 AS-6270, AS-6280		AS-1271, AS-1272	AS-1475, AS-1470	AS-1875FM, AS-1880FM, AS-2371TW-FM, AS-2381TWFM, AS-2471TWFM, AS-2381TWFM, AS-6870TWFM AS-2482TWS, AS-6880TWS	
AUTOSTART USA	AS-1774U, AS-1774SRU, AS-1780U, AS-2775, AS-2780U, AS-1775U, AS-6270U, AS-6280U		AS-2272, AS-1272U, AS-1271U	AS-1475U	AS-2372TWU, AS-2382TWU, AS-2472TWU, AS-2482TWSU, AS-3372TW-FM, AS-3382TWFM, AS-3472TWFM, AS-3482TWS, AS-6870TWU, AS-6880TWSU	
PolarStart	PS-3175, PS-3175E, PS-3175ESR, PS-3175SR, PS-3180E, PS-3180ESR, PS-7270, PS-7280				PS-3675FM, PS-3680FM, PS-4471TW-FM, PS-4481TWS, PS-4681TWFM, PS-7870TWEFM, PS-7880TWS	PS-4661TWEFM, PS-4661TWEFM, PS-3655SEFM
Nordic Start	NS-1084			NS-1074	NS-2432TW, NS-2332TW, NS-5070TW-FM	
Command Start	CS-3981, CS-4981				CS-18751, CS-2371TWFM, CS-2372TW-FM, CS-2381TWFM, CS-2471TWFM, CS-2472TWFM, CS-2481TWS, CS-6870TWFM	
Orbit					OB-3481, OB-3485, OB-3681	OB-3475, OB-3671, OB-2471
Prostart		CT-3471, CT-5072, CT-5472	CT-3271	CT-3371		
Premier Defense	PD-2.8, PD-3.0				PD-371, PD-372, PD-382, PD-385, PD-471 PD-472, PD-485, PD-870	
Visions					AS-2373TWFM-v, AS-2383TWFM-v, AS-2472TWFM-v	

Table note: Panic and Trunk may not be supported on all models.

6. Output 1-4
 - Opt 1 Lock: Output 1 operates as a Lock output
 - Opt 2 Unlock: Output 1 operates as an Unlock output
 - Opt 3 Trunk: Output 1 operates as a Trunk Release output
 - Opt 4 Start: Output 1 operates as a Remote Start trigger output (to an add-on remote starter)
 - Opt 5 Aux 1: Output 1 operates as the AUX 1 output when activating from the app
 - Opt 6 Aux 2: Output 1 operates as the AUX 2 output when activating from the app
 - Opt 7 OEM Arm: Output 1 operates as Factory Alarm Arm and pulses prior to the lock pulse from the system when Locking from the app
 - Opt 8 OEM Disarm: Output 1 operates as Factory Alarm Disarm and pulses prior to the Unlock pulse from the system when Unlocking from the app
7. Output 2 same option choice and definitions as Output 1 options except default option is 2: Unlock
8. Output 3 same option choice and definitions as Output 1 options except default option is 3: Trunk (Please refer to * note after Menu table for this Opt.)
9. Output 4 same option choice and definitions as Output 1 options except default option is 4: Start (Please refer to * note after Menu table for this Opt.)
10. Factory Reset, returns the system to the factory default settings. When resetting the unit, the features programming mode exists and is indicated by the LED flashing Red/Blue once.

Note 1: Resetting the unit does not delete paired smartphones from memory. The Blue LED may come on after the reset and exit from programming mode if the module is still connected to a paired smartphone.

Notes: SmartKey response time to active commands can vary depending on range and proximity to the vehicle. Operating temperature range: -30°C to +70°C (-22°F to +158°F).

Additional information can be found at: www.directechs.com

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LIMITED ONE YEAR CONSUMER WARRANTY

For a period of ONE YEAR from the date of purchase of a Directed Electronics remote start or security product, Directed Electronics. ("DIRECTED") promises to the original purchaser, to repair or replace with a comparable reconditioned piece, the security or remote start accessory piece (hereinafter the "Part"), which proves to be defective in workmanship or material under normal use, provided the following conditions are met: the Part was purchased from an authorized DIRECTED dealer; and the Part is returned to DIRECTED, postage prepaid, along with a clear, legible copy of the receipt or bill of sale bearing the following information: consumer's name, address, telephone number, the authorized licensed dealer's name and complete product and Part description.

This warranty is nontransferable and is automatically void if the Part has been modified or used in a manner contrary to its intended purpose or the Part has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defect in materials or construction.

TO THE MAXIMUM EXTENT ALLOWED BY LAW, EXCEPT AS STATED ABOVE, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NONINFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED; AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DIRECTED HEREBY DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING DEALERS OR INSTALLERS. DIRECTED IS NOT OFFERING A GUARANTEE OR INSURANCE AGAINST VANDALISM, DAMAGE, OR THEFT OF THE AUTOMOBILE, ITS PARTS OR CONTENTS, AND DIRECTED HEREBY DISCLAIMS ANY LIABILITY WHATSOEVER, INCLUDING WITHOUT LIMITATION, LIABILITY FOR THEFT, DAMAGE, OR VANDALISM. IN THE EVENT OF A CLAIM OR A DISPUTE INVOLVING DIRECTED OR ITS SUBSIDIARY, THE PROPER VENUE SHALL BE SAN DIEGO COUNTY IN THE STATE OF CALIFORNIA. CALIFORNIA STATE LAWS AND APPLICABLE FEDERAL LAWS SHALL APPLY AND GOVERN THE DISPUTE. THE MAXIMUM RECOVERY UNDER ANY CLAIM AGAINST DIRECTED SHALL BE STRICTLY LIMITED TO THE AUTHORIZED DIRECTED DEALER'S PURCHASE PRICE OF THE PART. DIRECTED SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGES FOR THE LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, THE MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR AT DIRECTED'S OPTION THE PART AS DESCRIBED ABOVE.

This warranty only covers Parts sold within the United States of America and Canada. Parts sold outside of the United States of America or Canada are sold "AS-IS" and shall have NO WARRANTY, express or implied. Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights and you may also have other rights that vary from State to State. DIRECTED does not and has not authorized any person or entity to create for it any other obligation, promise, duty or obligation in connection with this Part. For further details relating to warranty information of Directed products, please visit the support section of DIRECTED's website at: www.directed.com

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